

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: March 25, 1996
Date Received: March 21, 1996
Project: 7238, Metro Self Monitor, PO M52694
Date Samples Extracted: March 21, 1996
Date Extracts Analyzed: March 21, 1996

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, ZINC
USING METHOD 6010**

**Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)**

Sample ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M52694	0.80	0.54	0.62	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 67339 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.80	0.76	5	0-20
Copper	mg/L (ppm)	0.54	0.50	8	0-20
Nickel	mg/L (ppm)	0.62	0.60	3	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

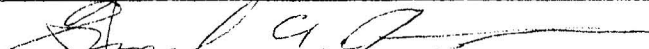
Laboratory Code: (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery		Acceptance Criteria	Relative Percent Difference
				MS	MSD		
Chromium	mg/L (ppm)	5	0.08	100	101	80-120	1
Copper	mg/L (ppm)	5	0.54	98	98	80-120	0
Nickel	mg/L (ppm)	10	0.62	101	103	80-120	2
Zinc	mg/L (ppm)	5	<0.05	101	104	80-120	3

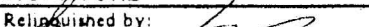

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

32196
KF AI
BJA

Send Report To: Alaskan Copper Works Contact: GERARD A. Thompson
Company: _____
Address: 628 1st St
City, State, Zip: Seattle WA
Phone #: (206) 782-8379 Date: 3-21-96

SITE NO.	PROJECT NAME	PURCHASE ORDER #
7238	Metrex Self monitor	M 52694
SAMPLERS (signature)	PROJECT LOCATION	
	3200 6th Ave S	
REMARKS	SAMPLE DISPOSAL INFORMATION	
	<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions	

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	GERALD A Thomas	Alaska Copper mine	3/21/96	1:30 pm
Received by: 	Bradley T Benson	FB Inc	3/21/96	1:30 pm
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

March 25, 1996

**INVOICE # 96ACU0325-1
DUPLICATE COPY**

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project 7238, Metro Self Monitor, PO M52694: Results of testing requested
by Gerald Thompson, Project Manager for material submitted on March 21,
1996.

1 water sample analyzed for
Chromium, Copper, Nickel, Zinc
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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FAX: (206) 283-5044

March 25, 1996

Gerald Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

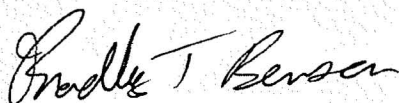
Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on March 21, 1996 from your 7238, Metro Self Monitor, PO M52694 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Bradley T. Benson
Chemist

keh

Enclosures
ACU0325R.DOC